

Attorney Docket No: IDF 1595 (4000-04000)

LISTING OF THE CLAIMS:

1. (Original) A computer-implemented method for testing and monitoring applications, the method comprising:

- (a) sending a first test signal to elicit a response from a first element of an application;
- (b) monitoring the application for the response to the first test signal;
- (c) checking the response to the first test signal;
- (d) sending a second test signal to elicit a response from a second element of the application, wherein the second element is independent and distinct from the first element;
- (e) monitoring the application for the response to the second test signal;
- (f) checking the response to the second test signal; and
- (g) reporting the results of checking the responses to the first and second test signals.

2. (Currently Amended) The computer implemented method of claim 1,

wherein the application is monitored in b) and e) by a monitoring program;

wherein monitoring in b) and e) further comprises monitoring the time at which the test signal is sent and monitoring a response time from the sending of the test signal to the receiving of the response from that test signal;

wherein the results comprise the response time from the sending of one of the test signals to the receiving of the response to that test signal by the monitoring program and the time at which that test signal was sent.

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3. (Original) The computer-implemented method of claim 1, wherein reporting the results comprises sending notification based on the presence of predefined results.
4. (Original) The computer-implemented method of claim 3, wherein sending notification comprises sending a page.
5. (Original) The computer-implemented method of claim 3, wherein sending notification comprises sending an e-mail.
6. (Original) The computer-implemented method of claim 1, wherein reporting the results comprises recording the results in a datastore.
7. (Original) The computer-implemented method of claim 6, wherein recording the results in a datastore comprises storing the results in a text file.
8. (Original) The computer-implemented method of claim 6, wherein recording the results in a datastore comprises storing the results in a relational database.
9. (Original) The computer implemented method of claim 1, wherein reporting the results comprises:
- sending notification based on the presence of predefined results; and
 - recording the results in a datastore.

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10. (Currently Amended) A computer-implemented method for testing and monitoring applications, the method comprising:

- (a) sending a first test signal to elicit a response ~~from~~ via a first channel of an application;
- (b) monitoring the application for the response to the first test signal;
- (c) checking the response to the first test signal;
- (d) sending a second test signal to elicit a response ~~from~~ via a second channel of the application, wherein the second ~~element~~ channel is independent and distinct from the first ~~element~~ channel;
- (e) monitoring the application for the response to the second test signal;
- (f) checking the response to the second test signal; and
- (g) reporting the results of checking the responses to the first and second test signals.

11. (Original) The computer-implemented method of claim 10, wherein the application is a messaging service, wherein one of the first and second channels is a send channel, and wherein the other of the first and second channels is a receive channel.

12. (Currently Amended) The computer-implemented method of claim 10, wherein the application is a publish/subscribe service, wherein the one of the first and second channels is a publish channel, and wherein the other of the first and second channels is a subscribe channel.

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13. (Currently Amended) A computer-implemented method for testing and monitoring applications, the method comprising:

- (a) sending a first test signal to elicit a response from a first object of an application;
- (b) monitoring the application for the response to the first test signal;
- (c) checking the response to the first test signal;
- (d) sending a second test signal to elicit a response from a second object of the application, wherein the second ~~element~~ object is independent and distinct from the first ~~element~~ object;
- (e) monitoring the application for the response to the second test signal;
- (f) checking the response to the second test signal; and
- (g) reporting the results of checking the responses to the first and second test signals.

14. (Original) The computer-implemented method of claim 13, wherein the application is a naming service; wherein the one of the first and second objects is a register object; and wherein the other of the first and second objects is a resolve object.

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15. (Original) The computer-implemented method of claim 13, wherein the application is a CORBA-compliant transaction service; wherein the first object is an OTS daemon, wherein the second object is a completion daemon and further comprising;

- (a) sending a third test signal to elicit a response from a recovery daemon;
- (b) monitoring the application for the response to the first test signal;
- (c) checking the response to the third test signal;
- (d) sending a fourth test signal to elicit a response from a transaction daemon;
- (e) monitoring the application for the response to the fourth test signal;
- (f) checking the response to the fourth test signal;

wherein reporting the results of checking the responses to the first and second test signals comprises reporting the results of checking the responses to the first, second, third, and fourth test signals; and wherein the sending of the first through fourth test signals may occur in any order.

16. (Original) The computer-implemented method of claim 1, wherein the application is an authentication and authorization system and wherein one of the first and second elements is an access server and wherein the other of the first and second elements is a register server.

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17. (Original) A computer program product for implementing a method for testing and monitoring applications, the computer program product comprising:

- (a) computer code that sends a first test signal to elicit a response from a first element of an application;
- (b) computer code that monitors the application for the response to the first test signal;
- (c) computer code that checks the response to the first test signal;
- (d) computer code that sends a second test signal to elicit a response from a second element of the application, wherein the second element is independent and distinct from the first element;
- (e) computer code that monitors the application for the response to the second test signal;
- (f) computer code that checks the response to the second test signal; and
- (g) computer code that reports the results of checking the responses to the first and second test signals; and
- (h) a computer readable medium that stores the computer codes.

18. (Original) A computer program product as recited in claim 17 wherein the computer readable medium is a code representation embodied in a carrier wave.

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19. (New) A computer-implemented method for testing and monitoring applications, the method comprising:

(a) sending a first test signal via a send channel of a messaging service to elicit a response;

(b) monitoring the messaging service for the response to the first test signal;

(c) checking the response to the first test signal;

(d) sending a second test signal via a receive channel of the messaging service to elicit a response;

(e) monitoring the messaging service for the response to the second test signal;

(f) checking the response to the second test signal; and

(g) reporting the results of checking the responses to the first and second test signals.

20. (New) The computer-implemented method of claim 19, wherein the order of sending the test signals is selected from one of the group consisting of:

the first test signal is sent prior to the sending of the second test signal;

the second test signal is sent prior to the first test signal; and

the first and second test signal are sent approximately simultaneously.

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21. (New) A computer-implemented method for testing and monitoring applications, the method comprising:

- (a) sending a first test signal via a publish channel of a publish/subscribe service to elicit a response;
- (b) monitoring the publish/subscribe service for the response to the first test signal;
- (c) checking the response to the first test signal;
- (d) sending a second test signal via a subscribe channel of the publish/subscribe service to elicit a response;
- (e) monitoring the application for the response to the second test signal;
- (f) checking the response to the second test signal; and
- (g) reporting the results of checking the responses to the first and second test signals.

22. (New) The computer-implemented method of claim 21, wherein the order of sending the test signals is selected from one of the group consisting of:
the first test signal is sent prior to the sending of the second test signal;
the second test signal is sent prior to the first test signal; and
the first and second test signal are sent approximately simultaneously.

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23. (New) A computer-implemented method for testing and monitoring applications, the method comprising:

- (a) sending a first test signal to elicit a response from a register object of a naming service;
- (b) monitoring the naming service for the response to the first test signal;
- (c) checking the response to the first test signal;
- (d) sending a second test signal to elicit a response from a resolve object of the naming service;
- (e) monitoring the naming service for the response to the second test signal;
- (f) checking the response to the second test signal; and
- (g) reporting the results of checking the responses to the first and second test signals.

24. (New) The computer-implemented method of claim 23, wherein the order of sending the test signals is selected from one of the group consisting of:

the first test signal is sent prior to the sending of the second test signal;

the second test signal is sent prior to the first test signal; and

the first and second test signal are sent approximately simultaneously.

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25. (New) A computer-implemented method for testing and monitoring applications, the method comprising:

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- (a) sending a first test signal to elicit a response from an access server of an authentication and authorization system;
 - (b) monitoring the authentication and authorization system for the response to the first test signal;
 - (c) checking the response to the first test signal;
 - (d) sending a second test signal to elicit a response from a register server of the authentication and authorization system;
 - (e) monitoring the authentication and authorization system for the response to the second test signal;
 - (f) checking the response to the second test signal; and
 - (g) reporting the results of checking the responses to the first and second test signals.

26. (New) The computer-implemented method of claim 23, wherein the order of sending the test signals is selected from one of the group consisting of:
the first test signal is sent prior to the second test signal;
the second test signal is sent prior to the first test signal; and
the first and second test signal are sent approximately simultaneously.

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27. (New) A computer-implemented method for testing and monitoring applications, the method comprising:

(a) sending a first test signal to elicit a response from a first object of a transaction service, wherein the first object is selected from a first member of the group consisting essentially of: an OTS daemon, a completion daemon, a recovery daemon, and a transaction daemon;

(b) monitoring the transaction service for the response to the first test signal;

(c) checking the response to the first test signal;

(d) sending a second test signal to elicit a response from a second object of the transaction service, wherein the second object is selected from a second member of the group consisting essentially of: an OTS daemon, a completion daemon, a recovery daemon, and a transaction daemon;

(e) monitoring the transaction service for the response to the second test signal;

(f) checking the response to the second test signal; and

(g) reporting the results of checking the responses to the first and second test signals.

28. (New) The computer-implemented method of claim 27, further comprising:

(h) sending a third test signal to elicit a response from a third object of the transaction service, wherein the third object is selected from a third member of the group consisting essentially of: an OTS daemon, a completion daemon, a recovery daemon, and a transaction daemon;

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- (i) monitoring the application for the response to the third test signal;
- (j) checking the response to the third test signal; and

wherein reporting the results of checking the responses to the first and second test signals comprises reporting the results of checking the responses to the first, second and third test signals; and wherein the sending of the first through third test signals may occur in any order.

29. (New) The computer-implemented method of claim 28, further comprising:

(k) sending a fourth test signal to elicit a response from a fourth object of the transaction service, wherein the fourth object is the remaining member of the group consisting essentially of: an OTS daemon, a completion daemon, a recovery daemon, and a transaction daemon;

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- (l) monitoring the application for the response to the fourth test signal;
 - (m) checking the response to the fourth test signal; and

wherein reporting the results of checking the responses to the first, second, and third test signals comprises reporting the results of checking the responses to the first, second, third, and fourth test signals; and wherein the sending of the first through fourth test signals may occur in any order.

30. (New) The computer-implemented method of claim 29, wherein the transaction service is a CORBA-compliant transaction service.